

## SEQUENCE LISTING

&lt;110&gt; Tao, Weng

Wong, Shou

Hickey, William F

Hammang, Joseph P

Baetge, Edward E

&lt;120&gt; Cell Surface Molecule-Induced Macrophage Activation

&lt;130&gt; 19141-543NATL

&lt;140&gt; 09/830,524

&lt;141&gt; 2001-04-26

&lt;150&gt; PCT/US99/24630

&lt;151&gt; 1999-10-21

&lt;150&gt; 09/178,869

&lt;151&gt; 1998-10-26

&lt;160&gt; 14

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 1019

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

```

cccgaattcg ccaccatgat ggatcaagct agatcagcat tctctaactt gtttgggtgga 60
gaaccattgt catatacccg gttcagcctg gctcggcaag tagatggcga taacagtcac 120
gtggagatga aacttgctgt agatgaagaa gaaaatgctg acaataacac aaaggccaat 180
gtcacaaaac caaaaagggtg tagtggaagt atctgctatg ggactattgc tgtgatcgtc 240
tttttcttga ttggatttat gattggctac ttgggctatt gttaaaggggt agaaccaaaa 300
actgagggat ccgagcccaa atcttgtgac aaaactcaca catgcccacc gtgcccagca 360
cctgaactcc tgggggggacc gtcagtcttc ctcttcccc caaaacccaa ggacaccctc 420
atgatctccc ggaccctga ggtcacatgc gtggtggtgg acgtgagcca cgaagaccct 480
gaggtcaagt tcaactggta cgtggacggc gtggaggtgc ataatgcaa gacaaagccg 540
cgaggaggagc agtacaacag cacgtaccgt gtggtcagcg tcctcaccgt cctgcaccag 600
gactggctga atggcaagga gtacaagtgc aaggtctcca acaaagccct cccagcccc 660
atcgagaaaa ccatctccaa agccaaaggg cagccccgag aaccacagggt gtacaccctg 720
ccccatccc gggatgagct gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc 780
ttctatccca gcgacatcgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac 840
aagaccacgc ctcccgtgct ggactccgac ggctccttct tcctctacag caagctcacc 900
gtggacaaga gcaggtggca gcagggaac gtcttctcat gctccgtgat gcatgaggct 960
ctgcacaacc actacacgca gaagagcctc tcctgtctc cgggtaaatg aagcttggg 1019

```

<210> 2

<211> 331

<212> PRT

<213> Homo sapiens

<400> 2

Met Met Asp Gln Ala Arg Ser Ala Phe Ser Asn Leu Phe Gly Gly Glu  
1 5 10 15

Pro Leu Ser Tyr Thr Arg Phe Ser Leu Ala Arg Gln Val Asp Gly Asp  
20 25 30

Asn Ser His Val Glu Met Lys Leu Ala Val Asp Glu Glu Glu Asn Ala  
35 40 45

Asp Asn Asn Thr Lys Ala Asn Val Thr Lys Pro Lys Arg Cys Ser Gly  
50 55 60

Ser Ile Cys Tyr Gly Thr Ile Ala Val Ile Val Phe Phe Leu Ile Gly  
65 70 75 80

Phe Met Ile Gly Tyr Leu Gly Tyr Cys Lys Gly Val Glu Pro Lys Thr  
85 90 95

Glu Gly Ser Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro  
100 105 110

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro  
115 120 125

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr  
130 135 140

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn  
145 150 155 160

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg  
165 170 175

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val  
180 185 190

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser  
195 200 205

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys

|   |     |         |
|---|-----|---------|
| 210   | 215 | 220     |
| Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp |     |         |
| 225   | 230 | 235 240 |
| Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe |     |         |
| 245   | 250 | 255     |
| Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu |     |         |
| 260   | 265 | 270     |
| Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe |     |         |
| 275   | 280 | 285     |
| Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly |     |         |
| 290   | 295 | 300     |
| Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr |     |         |
| 305   | 310 | 315 320 |
| Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys                     |     |         |
| 325   | 330 |         |

<210> 3  
 <211> 974  
 <212> DNA  
 <213> Homo sapiens

<400> 3

```

cccgaattcg ccaccatgat ggatcaagct agatcagcat tctctaactt gtttggtgga 60
gaaccattgt catatacccg gttcagcctg gtcggaag tagatggcga taacagtcac 120
gtggagatga aacttgctgt agatgaagaa gaaaatgctg acaataacac aaaggccaat 180
gtcacaaaac caaaaagggtg tagtggaagt atctgctatg ggactattgc tgtgatcgtc 240
tttttcttga ttggatttat gattggctac ttgggctatt gtaaaggggt agaaccaaaa 300
actgagggat ccgcacctga actcctgggg ggaccgtcag tcttcctctt cccccaaaa 360
cccaaggaca cctcatgat ctcccgacc cctgaggtca catgcgtggt ggtggacgtg 420
agccacgaag accctgaggt caagttcaac tggtagctgg acggcgtgga ggtgcataat 480
gccaagacaa agccgcggga ggagcagtac aacagcacgt accgtgtggt cagcgtcctc 540
accgtcctgc accaggactg gctgaatggc aaggagtaca agtgcaaggt ctccaacaaa 600
gccctcccag ccccatcga gaaaaccatc tccaaagcca aagggcagcc ccgagaacca 660
cagggtgtaca ccctgcccc atcccgggat gagctgacca agaaccaggt cagcctgacc 720
tgccctggtca aaggcttcta tcccagcgac atcgccgtgg agtgggagag caatgggcag 780
ccggagaaca actacaagac cagcctccc gtgctggact ccgacggctc cttcttctc 840
tacagcaagc tcaccgtgga caagagcagg tggcagcagg ggaacgtctt ctcagtctcc 900
gtgatgcatg aggctctgca caaccactac acgcagaaga gcctctccct gtctccgggt 960
aatgaagct tggg
974

```

<210> 4

<211> 316

<212> PRT

<213> Homo sapiens

<400> 4

Met Met Asp Gln Ala Arg Ser Ala Phe Ser Asn Leu Phe Gly Gly Glu  
1 5 10 15

Pro Leu Ser Tyr Thr Arg Phe Ser Leu Ala Arg Gln Val Asp Gly Asp  
20 25 30

Asn Ser His Val Glu Met Lys Leu Ala Val Asp Glu Glu Glu Asn Ala  
35 40 45

Asp Asn Asn Thr Lys Ala Asn Val Thr Lys Pro Lys Arg Cys Ser Gly  
50 55 60

Ser Ile Cys Tyr Gly Thr Ile Ala Val Ile Val Phe Phe Leu Ile Gly  
65 70 75 80

Phe Met Ile Gly Tyr Leu Gly Tyr Cys Lys Gly Val Glu Pro Lys Thr  
85 90 95

Glu Gly Ser Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe  
100 105 110

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val  
115 120 125

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe  
130 135 140

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro  
145 150 155 160

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr  
165 170 175

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val  
180 185 190

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala  
195 200 205

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg  
210 215 220

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
 225 230 235 240

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro  
 245 250 255

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser  
 260 265 270

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln  
 275 280 285

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His  
 290 295 300

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
 305 310 315

<210> 5

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
 Oligonucleotide primer

<400> 5

cccggatccg cctccaccaa gggcccatgc gtc

33

<210> 6

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
 Oligonucleotide primer

<400> 6

cccaagcttc atttaccgg agacagggag agg

33

<210> 7

<211> 32

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:  
     Oligonucleotide primer  
  
 <400> 7  
 cccggatccg ccaccatgat ggatcaagct ag 32  
  
  
 <210> 8  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:  
     Oligonucleotide primer  
  
 <400> 8  
 cccgaattcg ccaaaacgac acccccatct g 31  
  
  
 <210> 9  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:  
     Oligonucleotide primer  
  
 <400> 9  
 cccaagcttc atttaccagg agagtgggag ag 32  
  
  
 <210> 10  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:  
     Oligonucleotide primer  
  
 <400> 10  
 cccgaattcg ccaccatgat ggatcaagct ag 32

<210> 11  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 11  
tgtccttttg gcctcagttt ttggttctac 30

<210> 12  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 12  
ccaaaaactg aggccaaaac gacaccccca 30

<210> 13  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 13  
cccgaattcg ccacatgat ggatcaagct ag 32

<210> 14  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:

Oligonucleotide primer

<400> 14

gtgtgcacac cgctggacag ggatccagag

30